





87654321

GENERAL NOTES

1. THE PURPOSE OF THIS DRAWING IS TO SHOW THE INSTALLATION OF NEW LED NAVIGATION LIGHTS ON THE NOAA SHIP OKEANOS EXPLORER. THIS DRAWING WAS DEVELOPED USING REFERENCES 1-4 AND REFLECTS THE CONDITIONS FOUND DURING A SHIP CHECK CONDUCTED 09 MARCH 2020.

2. NUMBERS AND LETTERS IN PARENTHESIS AFTER THE SECTION OR DETAIL TITLE INDICATE THE VIEW OF THE DRAWING FROM WHERE THE SECTION OR DETAIL IS TAKEN.

3. ABBREVIATIONS USED ON THIS DRAWING ARE IN ACCORDANCE WITH ASME Y14.38.

4. SUBSTITUTIONS FOR ANY OF THE ITEMS INDICATED MUST BE APPROVED BY NOAA AS HAVING EQUAL SALIENT FEATURES AND QUALITY OF CONSTRUCTION. IN ADDITION, THE PROPOSED SUBSTITUTE MUST BE SHOWN TO BE SUITABLE FOR INTEGRATION INTO THE SYSTEM WITHOUT HAVING A NEGATIVE IMPACT ON THE OVERALL ARRANGEMENT, PERFORMANCE, MAINTENANCE OR ACCESS TO THE SPACE.

5. THE LIST OF MATERIALS FOR THIS DRAWING DOES NOT INCLUDE MISCELLANEOUS MATERIALS AND HARDWARE SUCH AS NUTS, BOLTS, SCREWS, PLASTIC SEALANT, ELECTRICAL INSULATION TAPE, PLASTIC VINYL ELECTRICIANS TAPE, TIE-WRAPPS, HEAT SHRINK, SLEEVING AND OTHER SUCH ANCILLARY ITEMS. HOWEVER, ALL ITEMS NECESSARY TO COMPRISE A COMPLETE, FINISHED AND OPERATIONAL INSTALLATION CONFORMING TO USCG AND ABS REQUIREMENTS AND GOOD SHIPBUILDING PRACTICE SHALL BE PROVIDED BY THE INSTALLER.

6. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ABS STEEL VESSELS UNDER 90 METER RULES.

7. VESSEL FRAME SPACING IS 24 INCHES THROUGHOUT.

8. TEMPORARY REMOVAL AND INSTALLATION OR RELOCATION OF INTERFERENCES REQUIRED TO ACCOMPLISH THE WORK INDICATED ON THIS DRAWING SHALL BE KEPT TO A MINIMUM AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

9. CONTRACTOR SHALL ENSURE THAT THE TASK LIGHTS ARE WIRED FOR SEPARATE CIRCUIT CONTROL AS PER DIAGRAM 14-A.

10. THE CONTRACTOR SHALL INSTALL 3 FOOT LONG JUMPERS IN EACH UNIT USING SHIELDED CABLE (ITEM 13) AND ATTACH PLUGS (ITEM 14).

LEGEND

N1

LSMSCU-24

EXISTING

JUMPER

NEW

LIST OF MATERIALS

PC NO	QTY	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL SPEC - PART NO	REMARKS
1	1 EA	FWD ANCHOR LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3660737000	POTENTIAL LONG LEAD TIME ITEM
2	1 EA	FWD MASTHEAD LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3661037000	POTENTIAL LONG LEAD TIME ITEM
3	2 EA	FWD TOWING LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3661037000	POTENTIAL LONG LEAD TIME ITEM
4	1 EA	PORT SIDE LIGHT (RED)	AQUA SIGNAL	SERIES 65 ARCTIC	3664237000	POTENTIAL LONG LEAD TIME ITEM
5	1 EA	STBD SIDE LIGHT (GREEN)	AQUA SIGNAL	SERIES 65 ARCTIC	3663137000	POTENTIAL LONG LEAD TIME ITEM
6	1 EA	AFT MASTHEAD LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3661037000	POTENTIAL LONG LEAD TIME ITEM
7	2 EA	TASK LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3660737000	POTENTIAL LONG LEAD TIME ITEM
8	4 EA	TASK LIGHT (RED)	AQUA SIGNAL	SERIES 65 ARCTIC	3660237000	POTENTIAL LONG LEAD TIME ITEM
9	1 EA	AFT TOWING LIGHT (YELLOW)	AQUA SIGNAL	SERIES 65 ARCTIC	3662437000	POTENTIAL LONG LEAD TIME ITEM
10	1 EA	STERN LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3662737000	POTENTIAL LONG LEAD TIME ITEM
11	1 EA	AFT ANCHOR LIGHT (WHITE)	AQUA SIGNAL	SERIES 65 ARCTIC	3660737000	POTENTIAL LONG LEAD TIME ITEM
12	1 EA	NAVIGATION LIGHT CONTROL PANEL	JBOX LLC		NLFM10D6SGN120AD P-PFA	REFERENCE 5
13	A/R	CABLE, FLEXIBLE, SHIELDED 14/2	COML		MARINE	SEE NOTE 10
14	24 EA	WATERTIGHT 15 AMP PLUG	PAULUHN		2603BU-125	
15	6 EA	WATERTIGHT SINGLE RECEPTACLE	PAULUHN		2632BU-125	
16	9 EA	WATERTIGHT DOUBLE RECEPTACLE	PAULUHN		2642BU-125	

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
-				INITIAL ISSUE	04/24/20	AAA

REFERENCES

NO	TITLE	DRAWING NO
1	STATEMENT OF WORK	-
2	NAVIGATION LIGHTS ARRANGEMENT REMOVAL	OE-422-102
3	ELECTRICAL ONE-LINE	OE-320-101
4	NAVIGATION LIGHTING SYSTEM ELEM WIRING DIAGRAM	OE-422-101
5	J-BOX SCHEMATIC	NLFM10D6SGN120A DP-PFA

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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CONTRACT NO. GS00F072CA

ECS PO NO. 20000496

DSGN 04/08/2020 M. TASSO

DWN 04/08/2020 R. MANANSALA

CHK 04/08/2020 J. WALKER

CHK 04/23/2020 S. ALBRIGHT

NOAA SHIP OKEANOS EXPLORER

LED NAVIGATION LIGHTS

LED NAVIGATION LIGHTS INSTALLATION

SIZE D OYLJ5

CAGE CODE

NOAA DRAWING NUMBER OE-422-103

REV -

SCALE: AS SHOWN

CAD FILENAME OE-422-103.dwg

SHT 1 OF 4

CONTRACT GUIDANCE

-4

INSTALLATION PROFILES

-3

WIRING DIAGRAM

-2

INSTALLATION DIAGRAM

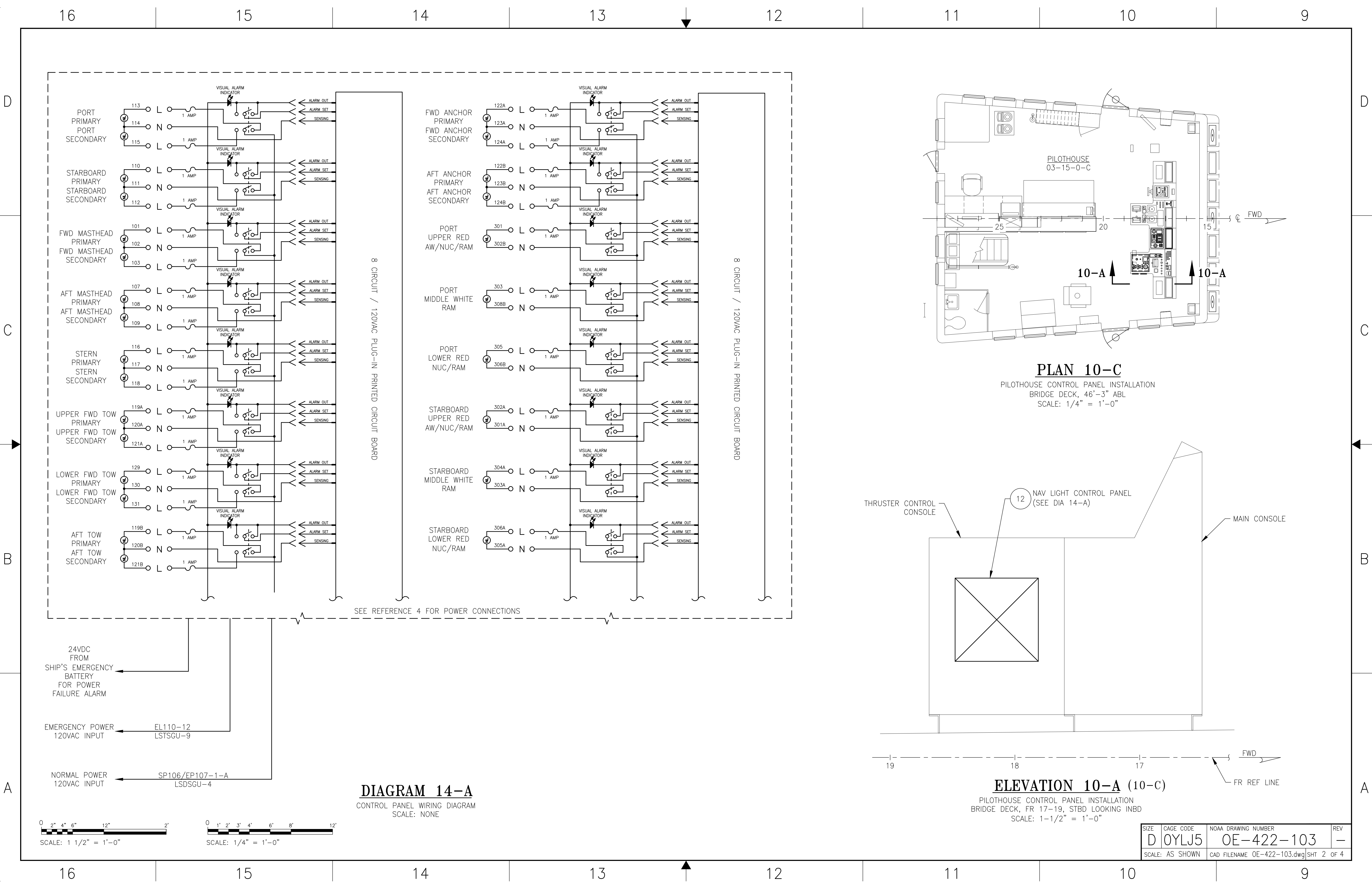
-1

TITLE SHEET, NOTES, MATERIAL LIST, SCHEDULE, AND LEGEND

REV SHEET

TITLE

SHEET INDEX



**DIAGRAM 14-A**  
CONTROL PANEL WIRING DIAGRAM  
SCALE: NONE

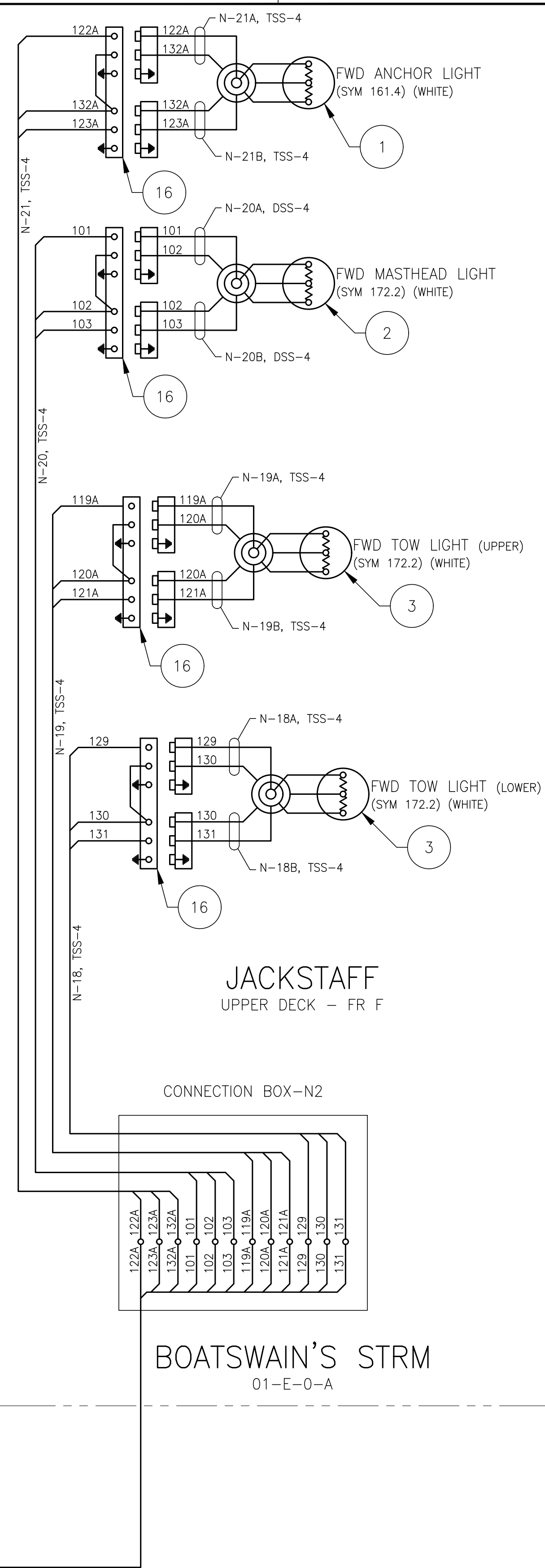
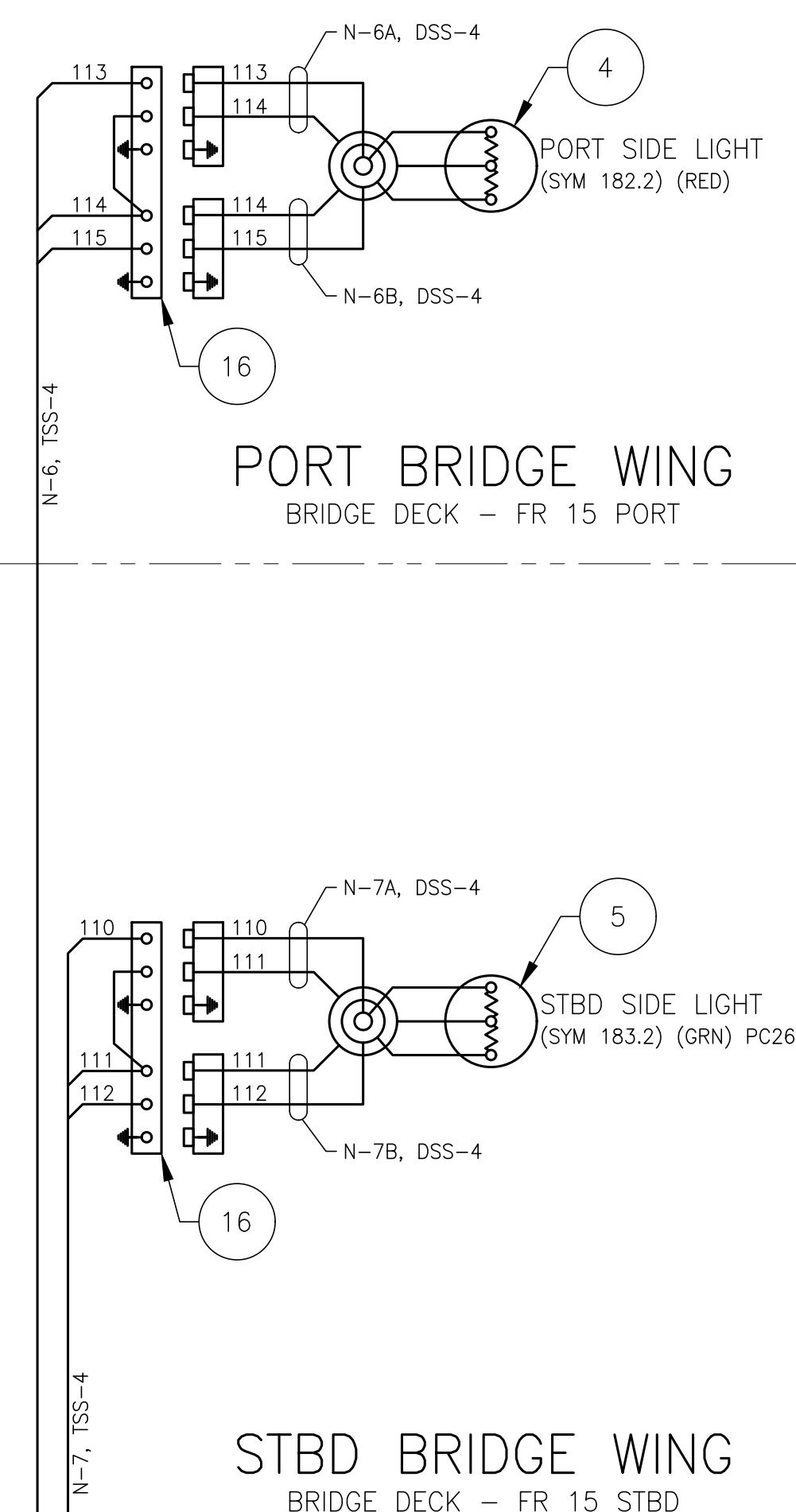
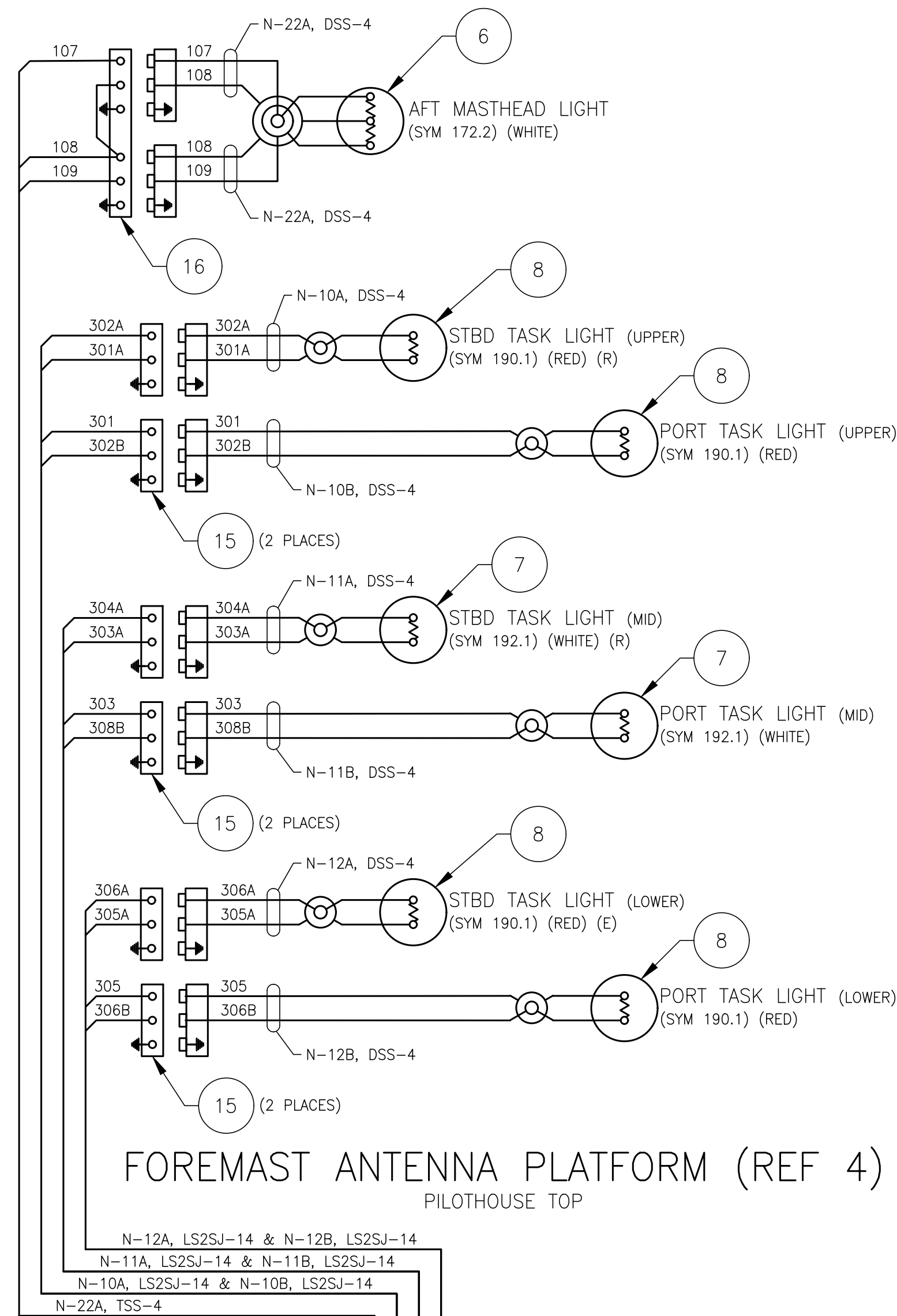
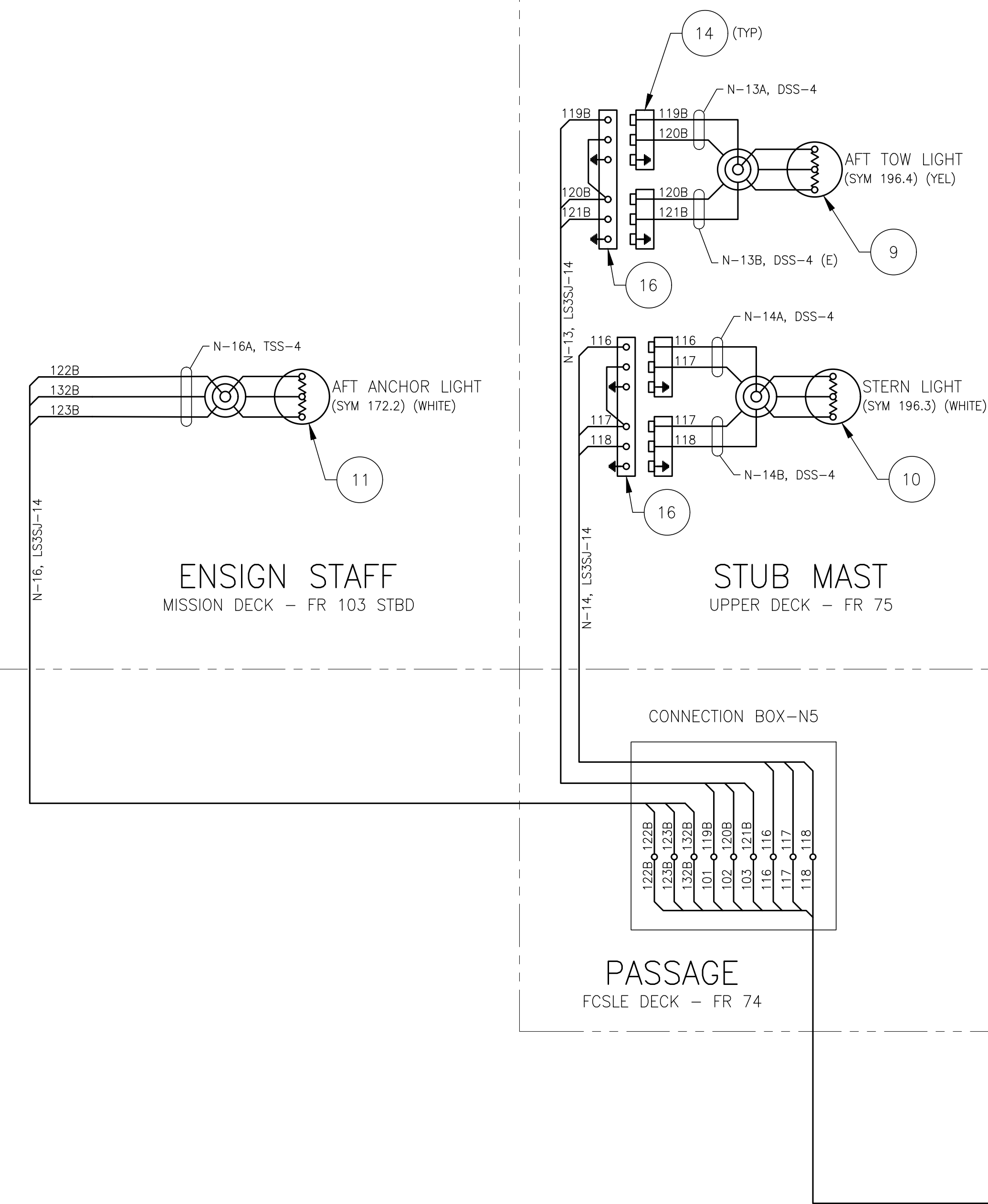
**PLAN 10-C**  
PILOTHOUSE CONTROL PANEL INSTALLATION  
BRIDGE DECK, 46'-3" ABL  
SCALE: 1/4" = 1'-0"

**ELEVATION 10-A (10-C)**  
PILOTHOUSE CONTROL PANEL INSTALLATION  
BRIDGE DECK, FR 17-19, STBD LOOKING INBD  
SCALE: 1-1/2" = 1'-0"

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	OYLJ5	OE-422-103	-
SCALE: AS SHOWN		CAD FILENAME OE-422-103.dwg	SHT 2 OF 4

# INSTALLATION NOTES

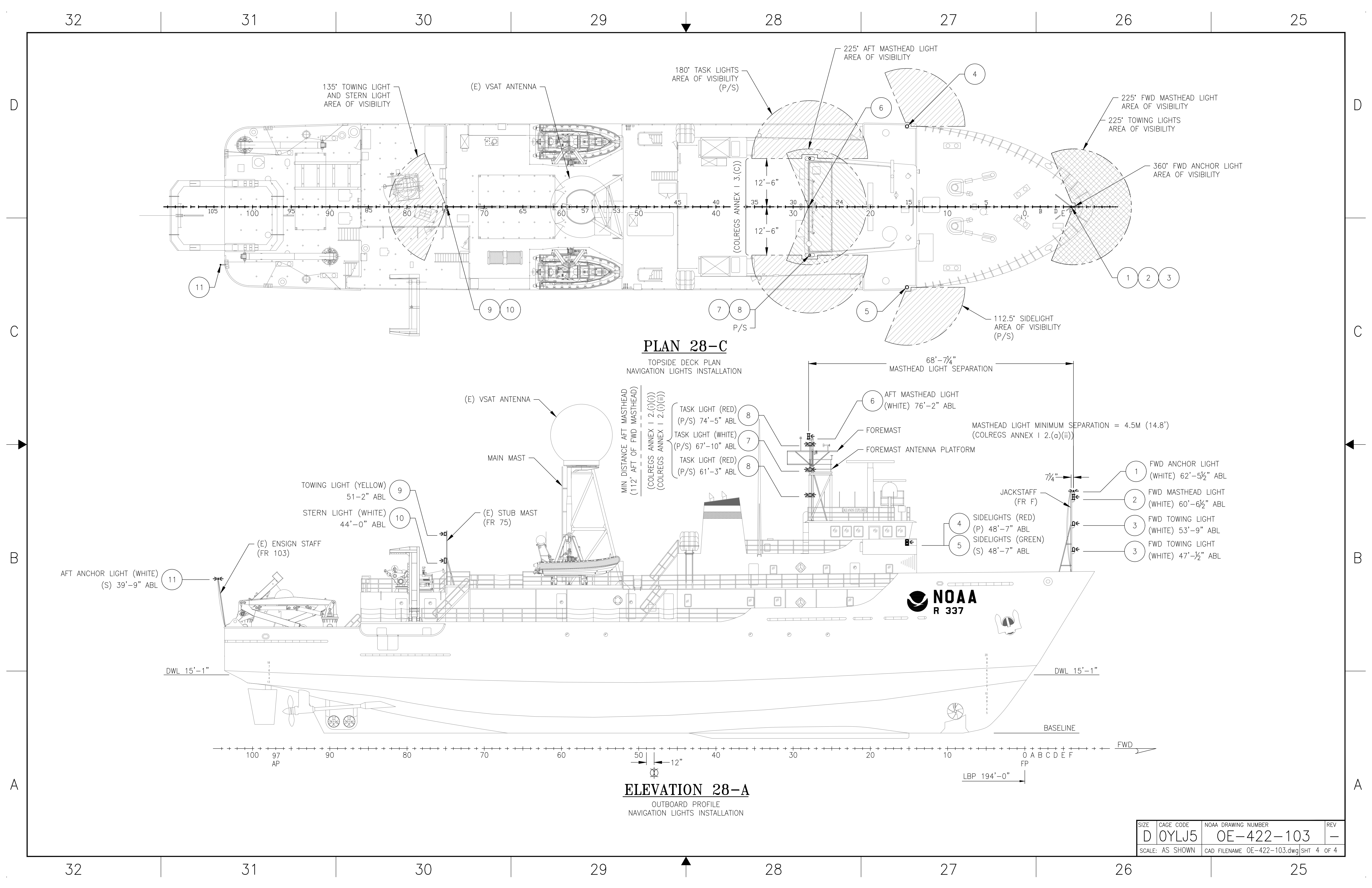
1. RECONNECT CABLES PULLED BACK AND RETAINED IN THIS DRAWING, IF LENGTH IS INSUFFICIENT FOR RECONNECTION CONTRACTOR SHALL REPLACE IN KIND. IF A LOCAL RUN OR SPLICE IS REQUIRED, INSTALL IN ACCORDANCE WITH ABS 4.6.3.5.29 OF U90M RULES SPLICING OF ELECTRICAL CABLES.



**DIAGRAM 22-A**  
ELEMENTARY WIRING INSTALLATIONS  
SCALE: NONE

PILOTHOUSE  
03-15-0-C

SIZE D	CAGE CODE OYLJ5	NOAA DRAWING NUMBER OE-422-103	REV —
SCALE: AS SHOWN		CAD FILENAME OE-422-103.dwg	SHT 3 OF 4



SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	OYLJ5	OE-422-103	-
SCALE: AS SHOWN		CAD FILENAME: OE-422-103.dwg	SHT 4 OF 4